

ABSTRACT

In an audio amplifier having a D-class power amplifier, a noise upon muting is suppressed.

There are provided a sampling rate converter circuit 23 for sampling rate
5 converting a digital audio signal S11 into a digital audio signal S23, and a $\Delta\Sigma$ modulation
circuit 14 for re-quantizing the digital audio signal S23 into a bit-reduced digital audio
signal S14. Further, there are provided a PWM modulation circuit 15 for converting the
digital audio signal S14 into a PWM signal S15, and a D-class power amplifier 16 to which
the PWM signal S15 is supplied. Still further, there are provided a dither signal forming
10 circuit 18 for superimposing a dither signal SDI on the digital audio signal S23, and a
forming circuit 19 for forming a muting signal SDET. Upon muting, an input side of the
sampling rate converter circuit 23 is stopped by the muting signal SDET.